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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,847	06/27/2006	Jasko Musaefendic	4518-43	1292
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2141 WISCON	SIN AVE, N.W.	STEELE, JENNIFER A		
SUITE C-2 WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			1798	
			NOTIFICATION DATE	DELIVERY MODE
			07/12/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Michael@APLegal.com docketing@cpaglobal.com

		Application No.	Applicant(s)			
Office Action Summary		10/596,847	MUSAEFENDIC, JASKO			
		Examiner	Art Unit			
		JENNIFER STEELE	1798			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 19 Ap	oril 2011				
2a)		action is non-final.				
3)	, -					
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
· · _		-1'1'				
	Claim(s) 61-73 and 81 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	Claim(s) 61-73 and 81 is/are rejected.					
_	Claim(s) is/are objected to.					
8)Ш	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9) ☐ The specification is objected to by the Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🔲 Infori	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application			

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Specification

The amendment filed is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: The amendment of 11/1/2010 added to page 3 a clause above lines 1-8 which describes and defines the expanded metal mesh and expanded mesh. The descriptive matter is new subject matter as it was not originally filed in the specification.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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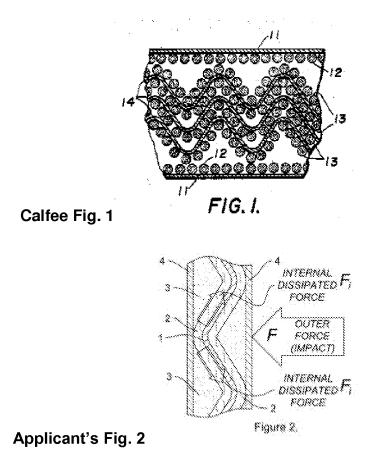
1. Claims 61-64 and 81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calfee (US 3,755,059) and Brookhart (US 3,989,789) and Hollis, Sr. (US 3,969,563). Claim 61 describes a high impact strength, elastic laminate system for enhancing impact resistant properties of a laminate structure, said laminate system comprising:

- a first outer layer
- a second outer layer
- at least two inner plies placed between the first and second outer layers;
- at least one dissipating element placed between said inner plies adapted to dissipate
 and redirect randomly directed local loading applied to at least one of said two outer
 layers, to tensile loading directed in longitudinal direction of said inner plies; and
 - whereby the said dissipating elements are structures presented in form
 selected from the group: of expanded mesh; woven mesh.
- a polymer matrix in between said first and second layer and said first and second plies,
 - said polymer matrix arranged to occupy all the volume not taken up by, and inbetween the said two outer layers, said at least two inner plies and said at least one dissipating element.

Calfee teaches a laminar composite of high impact and shearing resistance comprised of layers of graphite fiber, glass fiber and corrugated metal foil in an arrangement which resists spalling, interlaminar shearing and multipoint failure due to shock wave transmission (ABST). Calfee's laminate is show in Fig. 1 below where **11** is a metal foil

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layer and equated with Applicant's outer layers, **12** is a layer of glass fibers and equated with Applicant's inner plies, **13** are graphite fiber layers and equated with Applicant's inner plies and **14** are corrugated metal foil layers and equated with Applicant's dissipating elements.



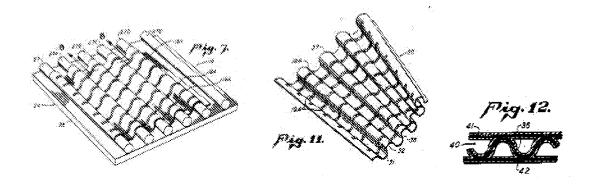
Calfee differs and does not teach the corrugated metal foil layers are in the form of an expanded mesh or woven mesh.

Brookhart is directed to a woven cloth of flexible material is formed over spaced supports which is cured to harden in sinusoidal shape. The woven cloth is warped, bent or otherwise shaped as desired for application to it of laminar sheets of cloth, wood or metal, then the core and the laminates are joined, impregnated and cured to a rigid

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structure of desired configuration and high strength to weight ratio (ABST). As shown in Figures. 7, 11 and 12, the woven cloth is shaped into a sinusoidal shape and cured and then can form a laminate structure such as that in Fig. 12. The cloth is an industrial woven cloth such as fiberglass, carbon cloth or other cloths of high strength, permeability and flexibility (col. 2, lines 33-36).



It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the corrugated woven cloth of Brookhart for the corrugated sheet of Calfee motivated to produce a laminate with the strength that corrugated mesh wires provide.

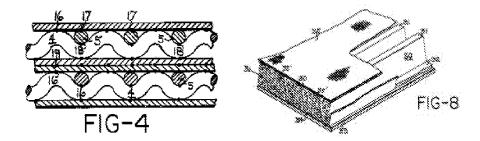
Calfee and Brookhart differ from the current application and does not teach a polymer matrix arranged to occupy all the volume not taken up by the layers.

Hollis teaches a protective wall structure that resists penetration and impact.

Hollis teaches outer layers of multilayer cloth with at least one inner protective inner layer defined by a rib-like formation defining a series of pockets. The pockets are filled with a polymer self sealing core structure (ABST). The polymer is equated with Applicant's polymer matrix. The structure of Hollis is shown in embodiments in Fig. 4 and Fig. 8 below.

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It would have been obvious to employ the polymer resin filled pockets of Hollis in the high impact laminate of Calfee and Chavannes motivated to increase the strength of the composite laminate.

As to claim 62, Calfee teaches additional layers of inner plies and dissipating elements.

As to claim 63, Calfee teaches the function of the inner plies is to serve as reinforcement. Calfee teaches that the glass fiber plies provide greater impact strength and therefore provide an improved laminate if the glass fibers are placed are located on the impact side (col. 2, lines 46-66).

As to claim 64, Calfee teaches the plies are made from S-glass, E-glass fibers (col. 3, lines 23-25).

As to claim 81, Calfee differs and does not teach a woven mesh layer.

Brookhart teaches a woven cloth can be formed into a sinusoidal shape and produced into a laminate which provides structural strength. Brookhart teaches a woven cloth but is silent with respect to the weave of the woven fabric. In the absence of a disclosure, one of ordinary skill in the art would equate a woven cloth with a plain weave. As shown in the figures of Brookhart, the weave is shown as a plain weave with an even

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pattern of warps and wefts. Brookhart's cloth allows for a polymer matrix to flow through the weave and cure into a rigid and strong form.

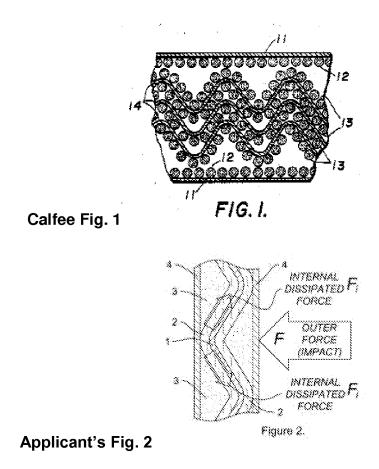
It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a plain woven fabric motivated to produce a laminate with improved structural strength and one which allows a polymer matrix to flow through.

2. Claims 61-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calfee (US 3,755,059) and Chavannes (US 4,358,498) and in further view of Hollis, Sr. (US 3,969,563).

Calfee teaches a laminar composite of high impact and shearing resistance comprised of layers of graphite fiber, glass fiber and corrugated metal foil in an arrangement which resists spalling, interlaminar shearing and multipoint failure due to shock wave transmission (ABST). Calfee's laminate is show in Fig. 1 below where **11** is a metal foil layer and equated with Applicant's outer layers, **12** is a layer of glass fibers and equated with Applicant's inner plies, **13** are graphite fiber layers and equated with Applicant's inner plies and **14** are corrugated metal foil layers and equated with Applicant's dissipating elements.

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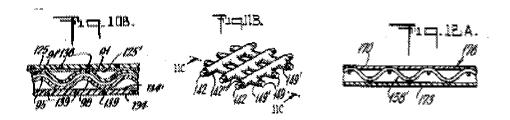
Calfee differs and does not teach the corrugated metal foil layers are in the form of a mesh.

Chavannes is directed to a reinforced laminated and corrugated board-like structure which includes a corrugated layer with reinforcing wire elements (ABST). The invention is an improved corrugated material formed of relatively stiff corrugated, plastic covered wire reinforcing elements with paper and/or plastic webs or liners adhered to one or both sides of the corrugated structure. The reinforcing elements may be either coated with a plastic or embedded in a sheet containing plastic in the form of longitudinal and/or transverse elements secured in spaced relationship to form a structure affording strength in the finished material (col. 1, lines 28-45). Chavannes

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teaches the wires form a grid as shown in Fig. 11B and are then fed through corrugating rollers to form a corrugated grid. The corrugated grid is then covered with a first and second plastic film such as shown in the structure in Fig. 12A and Fig. 10B. Chavannes teaches a corrugated mesh sheet is used to strengthen a laminate sheet.



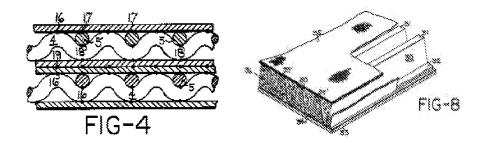
Chavannes differs and does not teach the mesh is expanded mesh, however expanded mesh is a process limitation where the mesh is formed by expanding the sheet to form holes. As the structure of expanded mesh and the mesh of Chavannes are obvious variants of a metal mesh, it would have been obvious to employ an expanded mesh versus welded mesh of Chavannes. It should be noted that even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same or an obvious variant from a product of the prior art, the claim is unpatentable even though a different process made the prior product. In re Thorpe, 227 USPQ 964,966 (Fed. Cir. 1985). The burden has been shifted to the Applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,292 (Fed. Cir. 1983).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the corrugated mesh of Chavannes for the corrugated sheet of Calfee motivated to produce a laminate with the strength that corrugated mesh wires provide.

Calfee differs from the current application and does not teach a polymer matrix arranged to occupy all the volume not taken up by the layers.

Hollis teaches a protective wall structure that resists penetration and impact.

Hollis teaches outer layers of multilayer cloth with at least one inner protective inner layer defined by a rib-like formation defining a series of pockets. The pockets are filled with a polymer self sealing core structure (ABST). The polymer is equated with Applicant's polymer matrix. The structure of Hollis is shown in embodiments in Fig. 4 and Fig. 8 below.



It would have been obvious to employ the polymer resin filled pockets of Hollis in the high impact laminate of Calfee and Chavannes motivated to increase the strength of the composite laminate.

As to claim 62, Calfee teaches additional layers of inner plies and dissipating elements.

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As to claim 63, Calfee teaches the function of the inner plies is to serve as reinforcement. Calfee teaches that the glass fiber plies provide greater impact strength and therefore provide an improved laminate if the glass fibers are placed are located on the impact side (col. 2, lines 46-66).

As to claim 64, Calfee teaches the plies are made from S-glass, E-glass fibers (col. 3, lines 23-25).

As to claim 65, Calfee differs and does not teach expanded mesh.

Chavannes teaches a metal mesh. While Chavannes differs and does not teach the mesh is expanded mesh, expanded mesh is a process limitation where the mesh is formed by expanding the sheet to form holes. As the structure of expanded mesh and the mesh of Chavannes are obvious variants of a metal mesh, it would have been obvious to employ an expanded mesh versus welded mesh of Chavannes. It should be noted that even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same or an obvious variant from a product of the prior art, the claim is unpatentable even though a different process made the prior product. In re Thorpe, 227 USPQ 964,966 (Fed. Cir. 1985). The burden has been shifted to the Applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,292 (Fed. Cir. 1983).

As to claim 66, Calfee differs and does not teach expanded mesh. Calfee teaches the metal foil is preferably made from a metal such as aluminum ,beryllium, magnesium, nickel, steel or titanium (col. 3, lines 20-23).

Chavannes teaches a metal wire mesh comprised of steel, aluminum, alloys (col. 4, lines 15-25).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ steel or aluminum alloys motivated to improve the strength of the dissipating elements.

As to claim 67, Calfee teaches at least two dissipating ply elements and reinforcing fibrous plies. Calfee teaches the fibrous plies can have fiber orientations of 0 or 90 degree (Table 2) which would be a unidirectional or cross-ply orientation as claimed. Calfee teaches the effect on fiber orientation is minimal (col. 5, lines 1-11).

As to claim 68, Calfee teaches the fibrous plies are impregnated with an epoxy resin (col. 3, lines 46). Calfee differs and does not teach a polymer matrix between the inner plies and outer faces. Hollis teaches the polymer matrix which fills the voids can be of a epoxy-urethane elastomer (col. 10, lines 25-28).

As to claim 69, Calfee teaches the outer metal layers can be made from aluminum, beryllium, magnesium, nickel, steel or titanium (col. 3, lines 20-23).

As to claim 70, Calfee differs and does not teach an additional layer on the outer layers of the composite laminate. Hollis teaches outer layers of multilayered cloth that can be aluminized (col. 7, lines 45-51). It would have been obvious to one of ordinary

skill in the art to add additional outer layers motivated to improve the strength of the laminate and provide the desired outer surface.

As to claims 71 and 72, Calfee in view of Chavannes and Hollis are all directed to impact resistant structures and therefore it is reasonable to presume that the claimed properties would be inherent or obvious over the combination. Calfee teaches the laminate can absorb impacts of lesser weights than claimed. When the reference discloses all the limitations of a claim except a property or function, and the examiner cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention the examiner has basis for shifting the burden of proof to applicant as in In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02

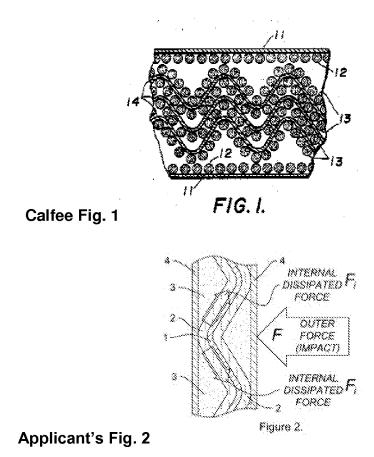
As to claim 73, Calfee and Chavannes and Hollis differ and do not teach the density of the laminate. It would have been obvious to one of ordinary skill in the art to optimize the layer thickness and number of layers motivated to produce a laminate with the desired impact resistance.

3. Claims 61-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calfee (US 3,755,059) and Meyer (US 2,733,177) and in further view of Hollis, Sr. (US 3,969,563).

Calfee teaches a laminar composite of high impact and shearing resistance comprised of layers of graphite fiber, glass fiber and corrugated metal foil in an arrangement which resists spalling, interlaminar shearing and multipoint failure due to shock wave

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transmission (ABST). Calfee's laminate is show in Fig. 1 below where **11** is a metal foil layer and equated with Applicant's outer layers, **12** is a layer of glass fibers and equated with Applicant's inner plies, **13** are graphite fiber layers and equated with Applicant's inner plies and **14** are corrugated metal foil layers and equated with Applicant's dissipating elements.

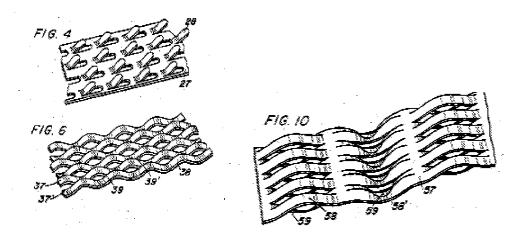


Calfee differs and does not teach the corrugated metal foil layers are in the form of an expanded mesh or woven mesh.

Meyer is directed to an elastic cascading impact absorber. Meyer teaches multiple layers including three rigid plates, 1, 3, and 5 laminated thereinbetween and attached thereto three elastic layers, 2,4 and 6 adapted to elastically support and

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separate layers 1, 3 and 5 as shown in Fig. 1 below. The layers may be attached to each other by means of adhesives or welding or a combination of both. Layer 1 is composed of rigid plates such as plate 7 which may be composed of metal of glassfabric reinforced plastic. Sheet 12 may be an elastic material such as steel having a spring constant selected so that the plates of layer 1 will compress springs 12 stamped out from sheet 12. Meyer does not refer to the elastic material sheets as expanded mesh, the elastic sheets have openings that resemble a mesh structure such as that shown in Fig. 4, 6 or 10. And the elastic sheets of Meyer are formed by stamping the openings into the metal sheet. This structure of Meyer is obvious over the claimed expanded mesh sheets as it is forms a mesh structure. The method of forming the sheets, expanding or stamping is a product by process limitation. It should be noted that even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-byprocess claim is the same or an obvious variant from a product of the prior art, the claim is unpatentable even though a different process made the prior product. In re Thorpe, 227 USPQ 964,966 (Fed. Cir. 1985). The burden has been shifted to the Applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,292 (Fed. Cir. 1983).

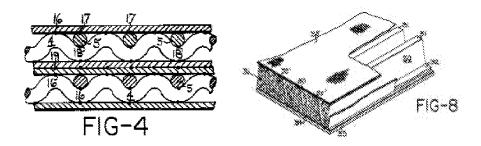


It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the corrugated mesh of Meyer for the corrugated sheet of Calfee motivated to produce a laminate with the strength that corrugated mesh wires provide.

Calfee and Meyer differ from the current application and do not teach a polymer matrix arranged to occupy all the volume not taken up by the layers.

Hollis teaches a protective wall structure that resists penetration and impact.

Hollis teaches outer layers of multilayer cloth with at least one inner protective inner layer defined by a rib-like formation defining a series of pockets. The pockets are filled with a polymer self sealing core structure (ABST). The polymer is equated with Applicant's polymer matrix. The structure of Hollis is shown in embodiments in Fig. 4 and Fig. 8 below.



As to claims 61 and 65, it would have been obvious to employ the polymer resin filled pockets of Hollis in the high impact laminate of Calfee and Meyer motivated to increase the strength of the composite laminate.

As to claim 62, Calfee teaches additional layers of inner plies and dissipating elements.

As to claim 63, Calfee teaches the function of the inner plies is to serve as reinforcement. Calfee teaches that the glass fiber plies provide greater impact strength and therefore provide an improved laminate if the glass fibers are placed are located on the impact side (col. 2, lines 46-66).

As to claim 64, Calfee teaches the plies are made from S-glass, E-glass fibers (col. 3, lines 23-25).

As to claim 66, Calfee teaches the metal foil is preferably made from a metal such as aluminum, beryllium, magnesium, nickel, steel or titanium (col. 3, lines 20-23). Calfee differs and does not teach an expanded mesh dissipating element. Meyer teaches a metal mesh structure which is formed of steel (col. 2, lines 40-41).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to formed the sheets out of steel motivated to achieve the desired strength of the laminate.

As to claim 67, Calfee teaches at least two dissipating ply elements and reinforcing fibrous plies. Calfee teaches the fibrous plies can have fiber orientations of 0 or 90 degree (Table 2) which would be a unidirectional or cross-ply orientation as

claimed. Calfee teaches the effect on fiber orientation is minimal (col. 5, lines 1-11). Meyer teaches multiple plies of elastic metal. It would have been obvious to one of ordinary skill in the art to employ multiple plies of dissipating elements motivated to improve the impact strength of the laminate.

As to claim 68, Calfee teaches the fibrous plies are impregnated with an epoxy resin (col. 3, lines 46). Calfee differs and does not teach a polymer matrix between the inner plies and outer faces. Hollis teaches the polymer matrix which fills the voids can be of an epoxy-urethane elastomer (col. 10, lines 25-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ an epoxy resin motivated to improve the impact strength of the laminate.

As to claim 69, Calfee teaches the outer metal layers can be made from aluminum, beryllium, magnesium, nickel, steel or titanium (col. 3, lines 20-23).

As to claim 70, Calfee differs and does not teach an additional layer on the outer layers of the composite laminate. Hollis teaches outer layers of multilayered cloth that can be aluminized (col. 7, lines 45-51). It would have been obvious to one of ordinary skill in the art to add additional outer layers motivated to improve the strength of the laminate and provide the desired outer surface.

As to claims 71 and 72, Calfee in view of Meyer and Hollis are all directed to impact resistant structures and therefore it is reasonable to presume that the claimed properties would be inherent or obvious over the combination. Calfee teaches the laminate can absorb impacts of lesser weights than claimed. When the reference discloses all the limitations of a claim except a property or function, and the examiner

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cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention the examiner has basis for shifting the burden of proof to applicant as in In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112- 2112.02

As to claim 73, Calfee and Meyer and Hollis differ and do not teach the density of the laminate. It would have been obvious to one of ordinary skill in the art to optimize the layer thickness and number of layers motivated to produce a laminate with the desired impact resistance.

Response to Arguments

- 4. Applicant's amendments are sufficient to overcome the 35 USC 112 2nd paragraph rejections over claims 61 and 65.
- 5. Applicant's amendments and arguments with respect to claims 61-73 and 81 have been considered but are moot in view of the new ground(s) of rejection. Applicant argues the 35 USC 103 rejection over Callis, Chavannes and Hollis stating that as amended the claims are distinguished from the prior art which does not teach expanded mesh or woven mesh. New grounds of rejection is presented over Callis, Brookhart and Hollis, where Brookhart teaches woven cloth fabric which is equated with woven mesh. And new grounds of rejection is presented over Callis, Meyer and Hollis where Meyer teaches a metal plate stamped with holes which is also obvious over an expanded mesh. Further the rejection over Callis, Chavannes and Hollis is maintained as the metal mesh of Chavannes is obvious over an expanded mesh. The term expanded

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mesh is construed to be a mesh made by a method of expanded or stretching the sheet. This is a product by process limitation and does not distinguish the structure over prior art. The burden is on the Applicant to provide evidence that an expanded mesh provides an improvement over prior art and unexpected results based on the combination of features. Evidence can be submitted in the form of a Rule 1.132 Declaration and must be commensurate in scope with the claims and compared to the prior art.

6. This Office Action is being made Nonfinal as a result of the Objection to the Specification for new subject matter submitted with the previous amendment of 11/1/2010. The amendment provided descriptive support to further limit the scope of expanded mesh and as submitted is new subject matter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER STEELE whose telephone number is (571)272-7115. The examiner can normally be reached on Office Hours Mon-Fri 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Ortiz can be reached on (571) 272-1206. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer Steele/ Examiner, Art Unit 1798

7/4/2011